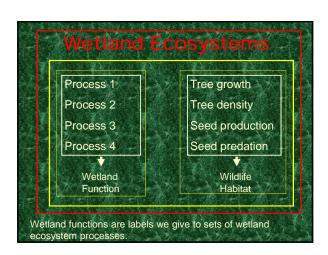
# FUNCTIONAL ASSESSMENT OF WETLANDS One Method of Assessing Wetland Functions

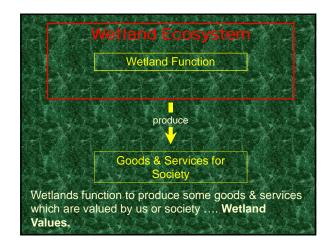
# Define: Wetland Functions & Wetland Values Define: Wetland Functions & Wetland restoration & enhancement Define: Wetland Functions & wetland assessment & its use as a tool for wetland restoration & enhancement Describe: knowledgeably in field exercises that apply simple assessment models to reference & degraded wetlands in order to understand their structure & function

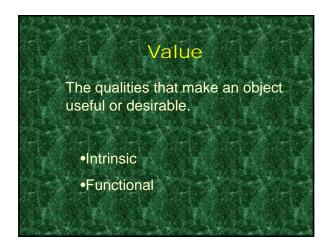
### Applications of a Functional Assessment Evaluate the reference wetlands used in planning. Use as a planning tool to identify key features necessary to provide specific functions. Evaluate project sites to determine the conditions before and after plan implementation. Use as a tool to determine whether the planned functions exist or corrective action is necessary.

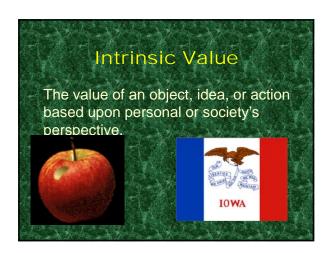
### Wetland Function Simply defined: Just the things that wetlands do. Some may benefit us, others may benefit something else, some we don't know about. Wetland functions result from the processes & interactions occurring in wetland ecosystems.





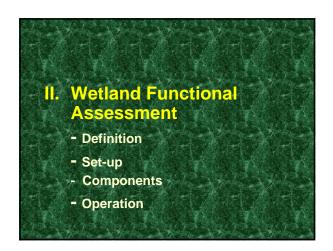








### Wetland Value The qualities that make wetlands useful and desirable, including the ability to perform useful functions. •aesthetics •fisheries •recreation •peat mining •passive •wildlife habitat enjoyment



### Functional Assessment Defined – The method by which the capacity of a wetland to perform a function is measured. i.e., how well is it doing any one, or all, of its functions.

### Wetland Functional Assessment Scheme

- Geomorphic setting landscape position
- Water source & transport vector where did it come from (ppt, upstream, groundwater) & which way did it go (atmospheric, lateral, phreatic)
- Hydrodynamics including velocity (bilateral (tidal), unidirectional (stream), vertical (evap./recharge))

### Wetland Assessment: Classes

- DEPRESSION
- FRINGE (LACUSTRINE & ESTUARIAN FRINGE)
- SLOPE
- FLATS (MINERAL & ORGANIC SOIL FLATS)
- RIVERINE

### Example regional subclasses for DEPRESSION Wetlands •Vernal pools in California •Kettle-hole bogs in New England •Prairie Potholes in North Dakota •Basin wetlands in Nebraska •Playa lakes in west Texas

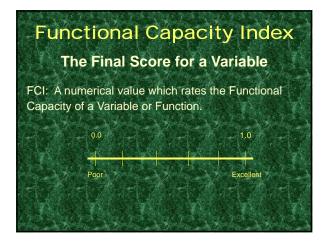
Cypress domes in FloridaCarolina bays in North Carolina

### Reference Condition In order to calibrate the functions, Reference Sites must be assessed. Reference Standard – (the best available) Reference Wetlands - (those used to evaluate) Reference Domain - (the geographic area)

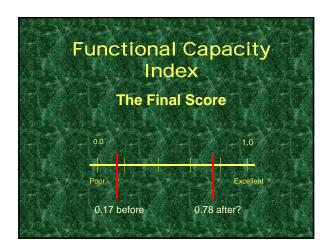
# Defining the Wetland Assessment Area (WAA & PWAA) Important to note that each community type must be assessed separately •Wetland Assessment Area (WAA) •Partial Wetland Assessment Area (PWAA) upland prairie seasonal wetland wetland wetland wetland

### Assessment Methodology Functional Assessment Model Composed of Functions & Variables Rate wetlands function by function Variables define functions

### Functional Capacity •Defined: The degree or magnitude that an area of wetland performs a function, or is capable of performing a function. •Functions are rated based upon the performance of several variables (or processes) that make up the function.



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Functional	
Assessment Uses	
Assess pristine/reference sites	
Assess degraded wetlands to be restored	
Develop restoration plans using functions / variables	1
Assess wetland progress and success / failures	
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